

# ATTACHMENT A

## Clean Version of Pending Claims (as of 1/16/2003)

1. A Novel DNA sequences expressed and repressed during winter dormancy in the apical buds of *Camellia sinensis* L. (O.) Kuntze (tea) bush or a tree species, said sequences comprising sequence ID 1 to 4 as shown here below:

SEQ ID NO:1

5'- ATCGCCGTAA TTGCCATGTT TTCCCTCTCA CCGGAATCCT ACG  
TTATCC CCTTACCTTC GTGAACATTA CAGTAGGAAT CCGTGGTCCA  
ATTATCAACT TAATTTTGGG CGCATCTGTT CGTGTTAACT AGAAGCCATG  
TATACATACA ATACAACATG GTTCACTCCT CCTACAGATT ATGAGTTGAA  
CTTTTATAAT AAGTTGTAAT AATGGCTTCT GAATAAGGAG AAGAGGAGCC  
TCTGTTTGT TTACTTATTA CAGATGTGAT ATCGTTCAAC AACTTTGATT  
CTGCGAAAAA AAAA-3'

SEQ ID NO: 2

5'- AGAAGTACCT GAAAGGAAGC TTAACGAGGT GAACATCCAT  
TGCAGCCAGC CCTGGAATCT GTACAGGGCA ACTCTGAACC GGAATTATTT  
TAATAACCCG TGGGCAATGA TTGCAATTAT GGCTCGTTTG GTATTACTTC  
TACTCACTTA GACACAACCTG TATTTACGGT TTTCGCTGGA ATTGTAATTG  
TTGGAGCGAC AAAATAGATG GTCACAACCT ATTGGTGAGA GTATCAGTGT  
GCTCTTCTTT ATCGTCTTTA ACTCTCCGTG GTAATTACTT TGACAATATT  
CATACAT -3'

SEQ ID NO: 3

5'- GAGACTCAGC TCAGCAATCA TGTTCTAAGT GAATGTCACT CTATCGCCTT  
CTTGTCCTTC TTAGACATAC TACATCCTCA TTCTGCTAGA AATGAACTCA  
TGTAGGTTTT GAAGTTGGGA ACTTTTGAAA CTGTGTTGTT TGGGTGCTGT  
CTGTTATACA ATTCTCTCAA CTGCGGAGAA TTGACGTTGG TTGTAGTGGA  
ATTCAACACT TGGGTTTTGT TCTTAGTTAA AAAAAAAAAA-3'

SEQ ID NO: 4

5'-ATAGCTTAGT CACGTGTCTC TTGAGAATGG ACTACGTAGT TGTTAAGTTG  
GGTGATCAGA AGGCGTTGAT GATGAATGTA TGAAGCAGAG ACTACTGAAT  
GTAATTTTGT TGTTGAAAGA TGAATGATTT ATTAATGCCT GCATATCTTT  
CTATTGTTTG ATGCCAAACC TTTGGGCACA TTTTCTTT CTTTTTGTGA  
TAATGTTCTC TTCTTGCAAA AAAAAAAA-3'

2. The Novel DNA sequences as claimed in claim 1 which are cloned from the tea bush of the same genetic make up.
3. The Novel DNA sequences as claimed in claim 1 which are cloned from the tea bush of the same genetic make up growing under field conditions.
4. Novel DNA sequences as claimed in claim 1, are associated with winter dormancy in tea.
5. Method to clone Novel DNA sequences as claimed in claim 1 from the tree species tea of the same genetic make up growing under field conditions.
6. Novel DNA sequences as claimed in claim 1, which are cloned by any methods but not limited to, subtractive hybridization and differential screening.
7. Novel DNA sequences as claimed in claim 1 wherein, the nucleotide sequence of the DNA is given in SEQ ID NO: 1.
8. Novel DNA sequences as claimed in claim 7 with the nucleotide sequence of the DNA as is given in SEQ ID NO: 1 is overexpressed only in non-dormant apical buds of tea.
9. Novel DNA sequences as claimed in claim 1 wherein, the nucleotide sequence of the DNA is given in SEQ ID NO:2
10. Novel DNA sequences as claimed in claim 9 with the nucleotide sequence of the DNA as is given in SEQ ID NO: 2 is expressed only in non-dormant apical buds of tea.
11. Novel DNA sequences as claimed in claim 1 wherein the nucleotide sequence of the DNA is given in SEQ ID NO: 3
12. Novel DNA sequences as claimed in claim 11 with the nucleotide sequence of the DNA as is given in SEQ ID NO:3 is expressed only in non-dormant apical buds of tea.
13. Novel DNA sequences as claimed in claim 1 wherein, the nucleotide sequence of the DNA is given in SEQ ID NO: 4

14. Novel DNA sequences as claimed in claim 13 with the nucleotide sequence of the DNA as is given in SEQ ID NO: 4 is expressed only in dormant apical buds of tea.
15. Novel sequences as claimed in claim 1 which are capable of being cloned to full-length cDNA.
16. Novel sequences as claimed in claim 1, which are capable of being cloned to full length genomic DNA.
17. Novel sequences as claimed in claim 1, which are capable of being cloned to important sequences, such as but not limited to, promoter sequences and regulatory sequences etc.
18. Use of sequence data as claimed in claim 1, important information on the gene regulation can be obtained.
19. Canceled.
20. Canceled.
21. Use of sequence data as claimed in claim 1, wherein important information on the gene regulation can be obtained to be exploited to regulate gene expression in transgene.
22. Use of cDNAs and the genomic DNAs as claimed in claims 15-16, for synthesizing unique proteins.
23. Canceled.
24. Canceled.
25. Use of novel sequences as claimed in claim 1 and cDNAs and the genomic DNAs as claimed in claims 15-16, as probe to look for the sequences of nucleotides in other plants, animal and/or microbial systems and the like.

26. Use of novel sequences as claimed in claim 1 and cDNAs and the genomic DNAs as claimed in claims 15-16, as probe to look for the expression of these sequences of nucleotides in other plants, animal and/or microbial systems and the like.